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4. A method according to claim 1, comprising further steps of receiving predefined information about the cells to be measured at the mobile station, and defining the reporting order based on said received information.

6. A method according to claim 4, wherein at least part of the information is transmitted in a separate message via the broadcasting control channel.

7. A method according to claim 1, further comprising a step of associating each of the reported measurement results with respective cells at a control node of the cellular communication system.

8. A method according to claim 1, wherein the reported cell measurement result for a cell comprises signal level of a radio signal received at the transceiver station.

9. A method according to claim 1, wherein the reporting order is defined and the cell measurements are performed at the transceiver station for cells other than the serving cell.

10. A method according to claim 1, wherein the reporting order is based on the information received from the serving cell.

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11. A method according to claim 1, wherein rules for defining the reporting order are stored at the transceiver station.

12. A method according to claim 1, comprising a step of transmitting rules for the reporting order to the transceiver station via the radio interface.

13. A method according to claim 1, comprising a step of changing rules for defining the reporting order.

14. A method according to claim 1, wherein rules for selecting the relevant other cells are stored at the transceiver station.

15. A method according to claim 1, comprising a step of transmitting rules for the selection of relevant cells to the transceiver station via the radio interface.

16. A method according to claim 1, comprising a step of changing the rules for the selection of the relevant cells.

17. A method according to claim 1, wherein the transceiver station sends the communication system information of the rules used for generating the cell measurement report.

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*A1*  
18. A method according to claim 1, wherein the reported information of the cell measurement results is based on reference values.

*A3*  
22. A cellular communication system according to claim 20, wherein the report message contains information symbols and at least one indication symbol in a string, said indication symbol indicating whether the following predefined number of symbols in the string define the cell measurement results of a subsequent cell in the reporting order of the cells or whether the subsequent cell will not be reported in the string.

*A4*  
24. A cellular communication system according to claim 20, wherein the transceiver station is arranged to receive predefined information associated with at least some of the further cells for use in defining the reporting order of the further cells.

*A5*  
26. A cellular communication system according to claim 20, further comprising a control node including means for associating measurement results with corresponding cells based on the reporting order.

*A6*  
29. A mobile station according to claim 27 being further arranged to receive predefined information associated with at least some of the further cells for use in defining the reporting order of the further cells.